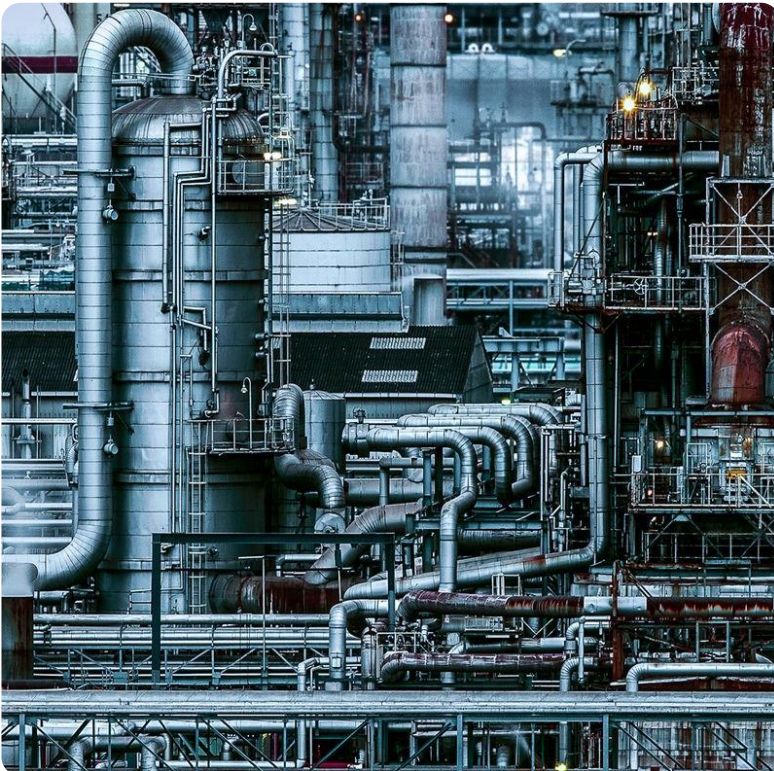


IOT FOR CHEMICAL AND CERAMIC ENGINEERS



Chemical industries tend to implement a specific process for producing a primary chemical and its derivative products. The plant is optimized to move ingredients from silos and storage tanks, through the process and finally to the packaging area. IoT is used to remotely monitor this industrial infrastructure of conveyor and pipes. In real time these solutions can measure, record and analyse levels in storage tanks, pressure and temperature in tanks and pipelines and flow rates for liquids and gases. IoT based solutions can also operate industrial relays and control valves remotely to create a comprehensive operations control centre.

The critical processes in the chemical industry operate under high temperature and pressure conditions and that can cause accidental leakage of hazardous compounds. This is a risk for plant workers and plant management. IoT enables continuous monitoring of hazardous chemicals so that risks can be automatically monitored and mitigated. A worker's vital parameters can be monitored using a wearable device, like the one from Tata Communications, and smart exit lights can guide him to safety.



Capsule Labs is founded by IoT industry veterans and offers foundational IoT projects to develop a better understanding of IoT solution. With our water kit you can create projects for measuring flow and other parameters.